UNIFIED COMMAND PLAN

- **Published every two years**
- **9 Unified Commands**
  - **5 Geographic**
  - **4 Functional**
- **Minor geographic CINC changes**
- **Functional Command changes were targeted**
  - **JFCOM changes and USSPACECOM were significant**

US SPACE COMMAND

- INFORMATION OPERATIONS
  - **Computer Network Defense (JTF CND)**
  - **Computer Network Attack (JTF CNA)**
- Changes could ultimately end up creating a US Space and Information Command

JOINT FORCES COMMAND

- Hybrid Command
  - Functional and Geographic responsibilities
- Issues:
  - Homeland Defense
  - JTF Civil Support to lead agencies
    - WMD incident in CONUS (CM mission)

COMMANDERS' AREAS OF RESPONSIBILITY

BY ITSELF THIS MAP IS UNCLASSIFIED

$95^{o}W$

$100^{o}E$

Arctic Ocean

USPACOM

USJFCOM

Arctic Ocean

USPACOM

Atlantic Ocean

28°N, 58°W

USEUCOM

Pacific Ocean

I.

8°N

USCENTCOM

USPACOM

USSOUTHCOM

5°S, 68°E

Pacific Ocean

II.

Indian Ocean

I. USSOUTHCOM assumes from USJFCOM on 1 OCT 00.
II. USEUCOM assumes from USJFCOM on 1 OCT 00.
III. USEUCOM assumes from USPACOM on 1 OCT 00.

Atlantic Ocean

III.

USPACOM

$92^{o}W$

$30^{o}W$

$17^{o}E$ $42^{o}E$

UCP 21

- **Separate JFCOM functional and geographic responsibilities**
  - **JFCOM**
  - **USCOM**
- **Geographic issues**
  - **Mexico, Canada, Russia, Antarctica**

UCP 21 Path

ECJ5-P

JOINT FORCES

	SACLANT(*)	SACLANT	SACLANT
JFCOM	JFCOM	JFCOM	JFCOM

SACLANT
JC2WC

HOMELAND DEFENSE

JTF CS
(WMD CM)

	USCOM (*)	USCOM (*)	USCOM

DOMS

* Key Decision Points

INFORMATION OPERATIONS

SPACECOM
NORAD
NMD
JTF CND
JC2WC (JIOC)

IOTC/DISA

SPACE&INFO
COMMAND(*)
JTF IS
DISA (-)
IOTC

SPACE&INFO
COMMAND(*)
DISA (-)

SPACE&INFO
COMMAND

UCP 99	UCP 01	UCP 03	UCP 21

Planning Issues

- JOPES Vol II
  - MAT Annex Q generation
  - Future Plans and ESP Update
- Increasing use of ESP 4000 (after revision)
- US/UK bilateral negotiations

Medical NBC Casualty and Resource Estimation Support Tool (NBC CREST)

Training Course
Version 0.90

Center for Army Analysis

Fort Belvoir, Virginia

1-2 June 2000

VERIDIAN

PSR

ESG

ScenPro, Inc.

Medical NBC CREST Project Overview

- Purpose
  - Enable advanced planning for medical operations in an NBC environment
- Objective
  - Provide Medical Planners with a Tool Set to:
    - Estimate NBC casualties
    - Estimate medical requirements
    - Analyze alternate medical Courses of Action (COAs)
- Government Participants
  - OTSG, AMEDDC&S, MRMC, CHPPM, FORSCOM, AFRRI, CINCs, JCS, ASD-HA, JRCAB, U.S. Army Medical Elements...

NBC CREST *v0.9* is Based on U.S. Army Medical Doctrine

- Deliberate medical planning
- NBC only
- Focused on U.S. Army medical planning for a battlespace environment
- Multiple planning levels (Corps, Division, Brigade)
- Expect eventual extension to
  - Joint planning (coordination with MAT)
  - Civil Support

NBC CREST Supports Specific Planning Needs at Each Level

- Select pre-defined deployments or define tailored deployments.

- Select pre-defined attack scenarios or define new attacks

- Quickly estimate area logistical requirements with military and/or civilian population at risk

- Perform a detailed COA analysis based on deployed medical treatment facilities (MTFs)

Multiple Files

Casualty Estimator Files

Resource Requirements Files

Course of Action Analysis Files
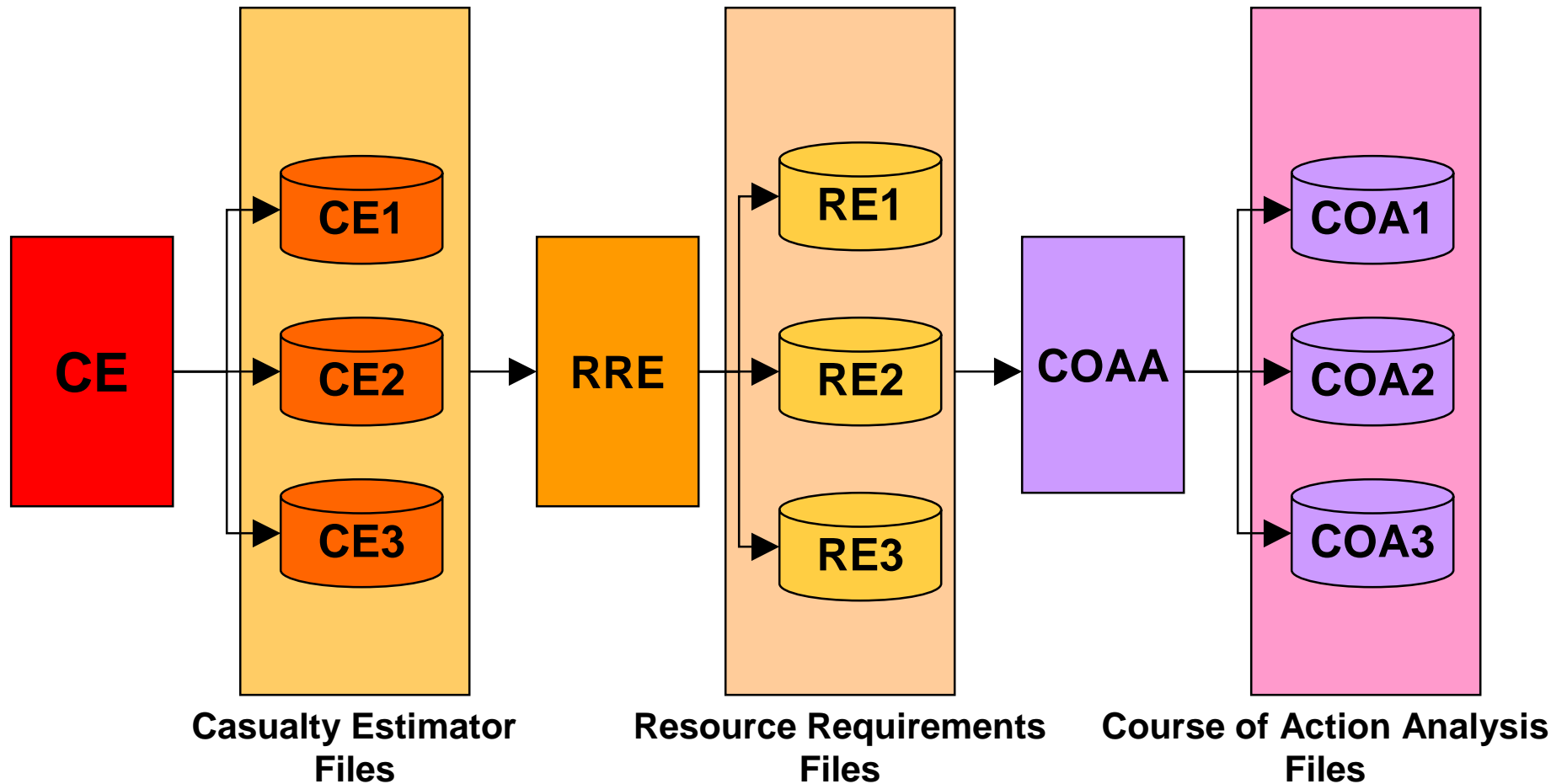
CE Module Supports User-defined Scenarios

- **Planner defines the NBC casualty/attack scenario in accordance with current threat assessment and operational requirements**
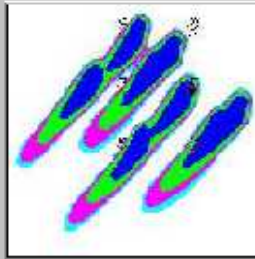
Positions units

Choose attack

Specify vulnerable units

Executes (finishes) calculations

Save patient stream

Casualty Estimator Wizard - Specify Attacks

Toolbar buttons
Zoom | Zoom | Pan | Reset | Move | Edit | Delete | Over | Info | MTFs | Attack

Add | Layers | Copy

Contours
Probability of Infection
- 1 percent (blue)
- 25 percent (green)
- 50 percent (yellow)
- 75 percent (red)
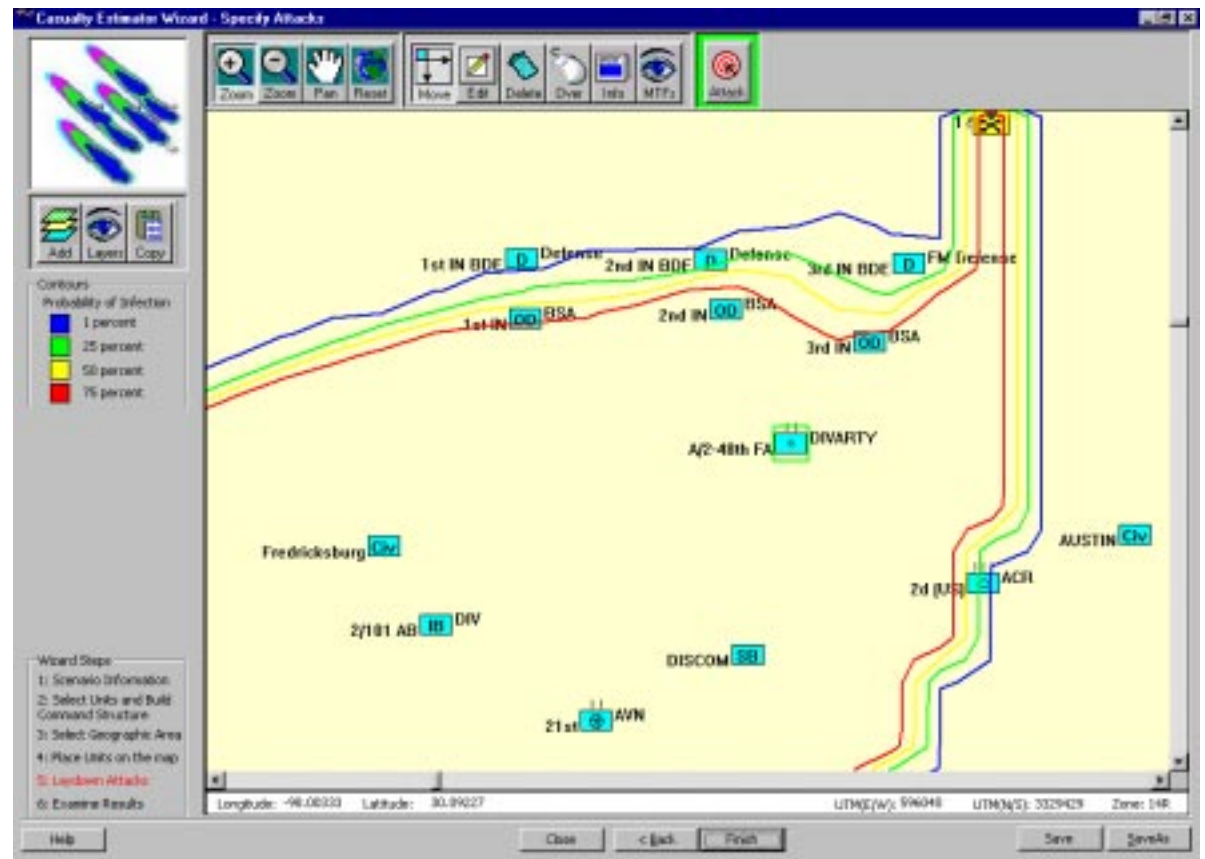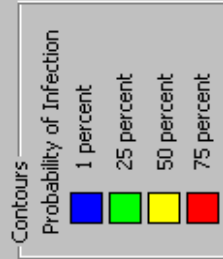
Wizard Steps
1: Scenario Information
2: Select Units and Build Command Structure
3: Select Geographic Area
4: Place Units on the map
5: Laydown Attacks
6: Examine Results
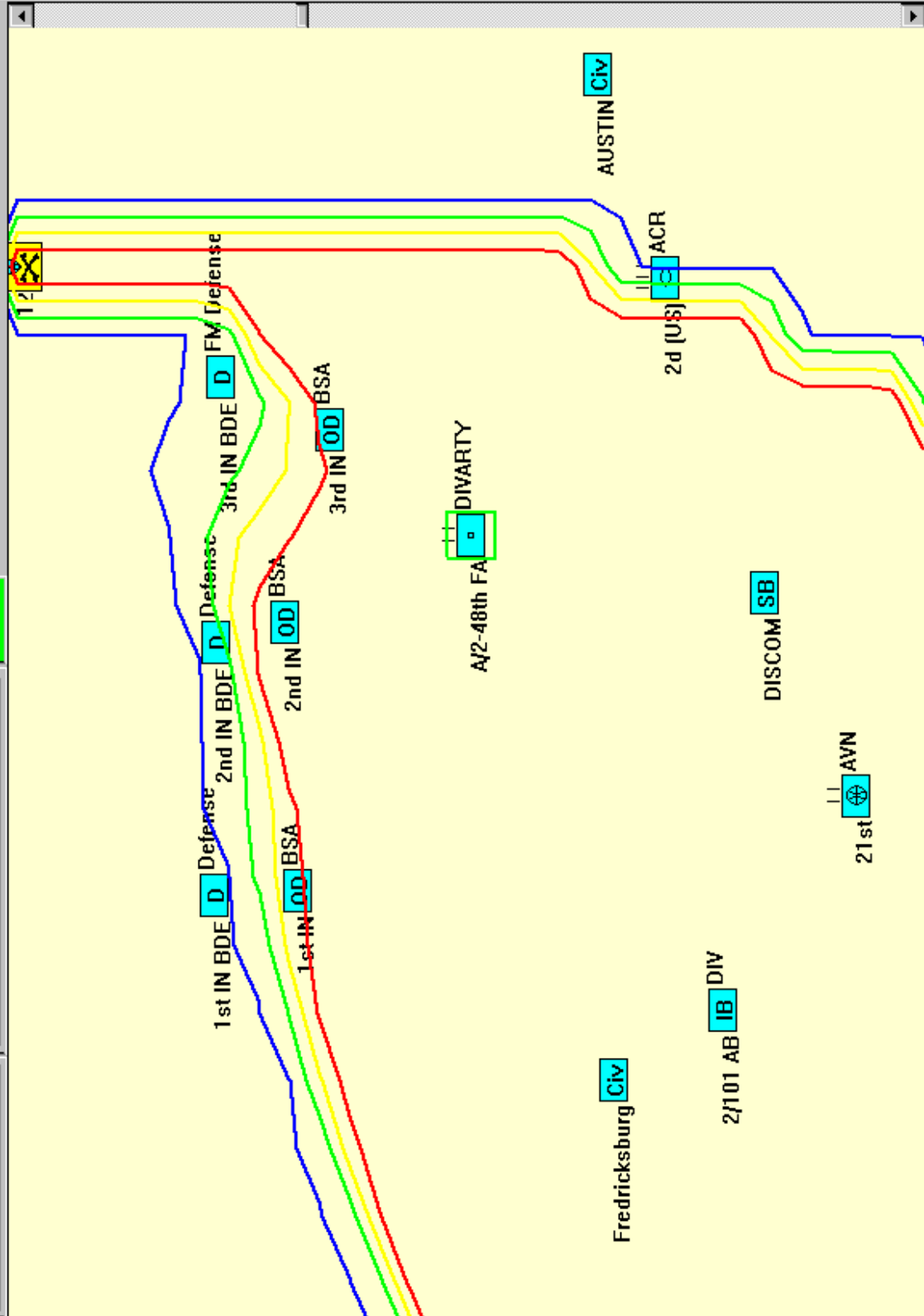
Longitude: -98.00333   Latitude: 30.09227

UTM(E/W): 596040   UTM(N/S): 3329429   Zone: 14R

Help | Close | < Back | Finish | Save | SaveAs

Map labels
AUSTIN Civ
ACR
2d (US)
FM Defense
3rd IN BDE D
3rd IN OD BSA
BSA
DIVARTY
A/2-48th FA
2nd IN BDE D Defense
2nd IN OD BSA
DISCOM SB
1st IN BDE D Defense
1st IN OD BSA
21st AVN
2/101 AB IB DIV
Fredricksburg Civ

RRE Module Provides Quick Estimates of Logistical Requirements

- Planner sets up RRE run by selecting
  - Casualty stream
  - Military and/or Civilian casualties
- Estimates medical requirements:
  - Class VIII
  - Evacuation
  - Personnel
  - Beds

Materiel Requirements Graph (Volume)
Level 2
Warning - Invalidated Results Shown
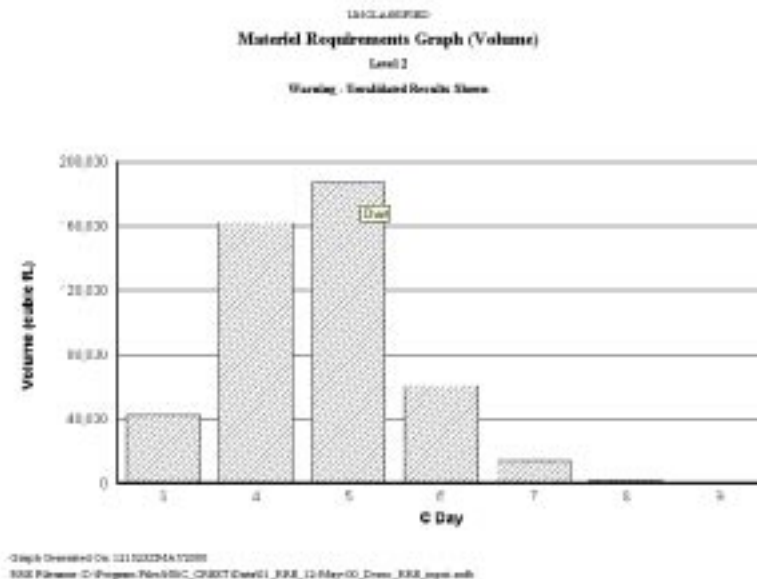
COAA Module Evaluates Possible Medical Courses of Action

- **Planner sets up COAA run by selecting:**
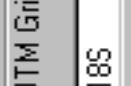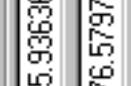 - –Resource estimation file
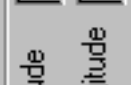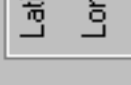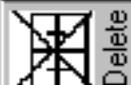 - –Military and/or civilian
  - –MTF network

- **Resource requirements compared to available resources**
  - –Shortfalls highlighted
  - –Results presented graphically

- **Iterate to mitigate shortfalls**

MTF Definition

UTM Grid Zone

18S

MTFs

MSMC

FSMC

BAS

ASMC

CSH

Latitude: 35.9363610

Longitude: -76.579731

Legend

Ground Evacuation

Air Evacuation

Ground/Air Evacuation

Report To

Casualty Source

Zoom

Zoom

Pan

Reset

Move

Delete

Evacs

Identify
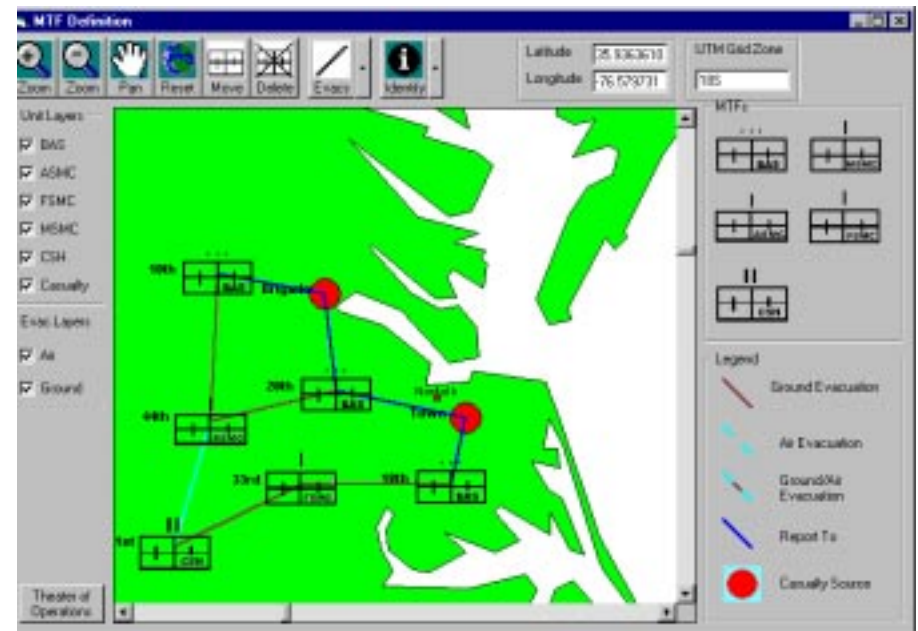
Unit Layers

- BAS
- ASMC
- FSMC
- MSMC
- CSH
- Casualty

Evac Layers

- Air
- Ground

Theater of Operations

Norfolk

Town...

Brigade...

18th

BAS

20th

BAS

33rd

FSMC

10th

BAS

44th
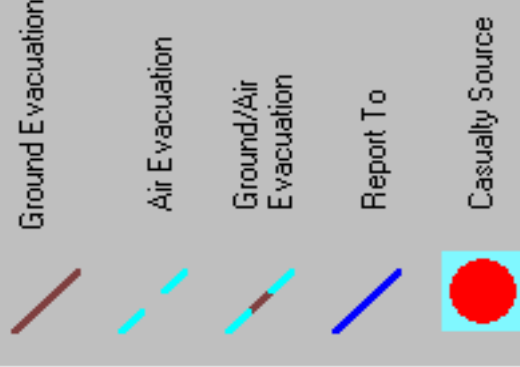
ASMC

1st

CSH
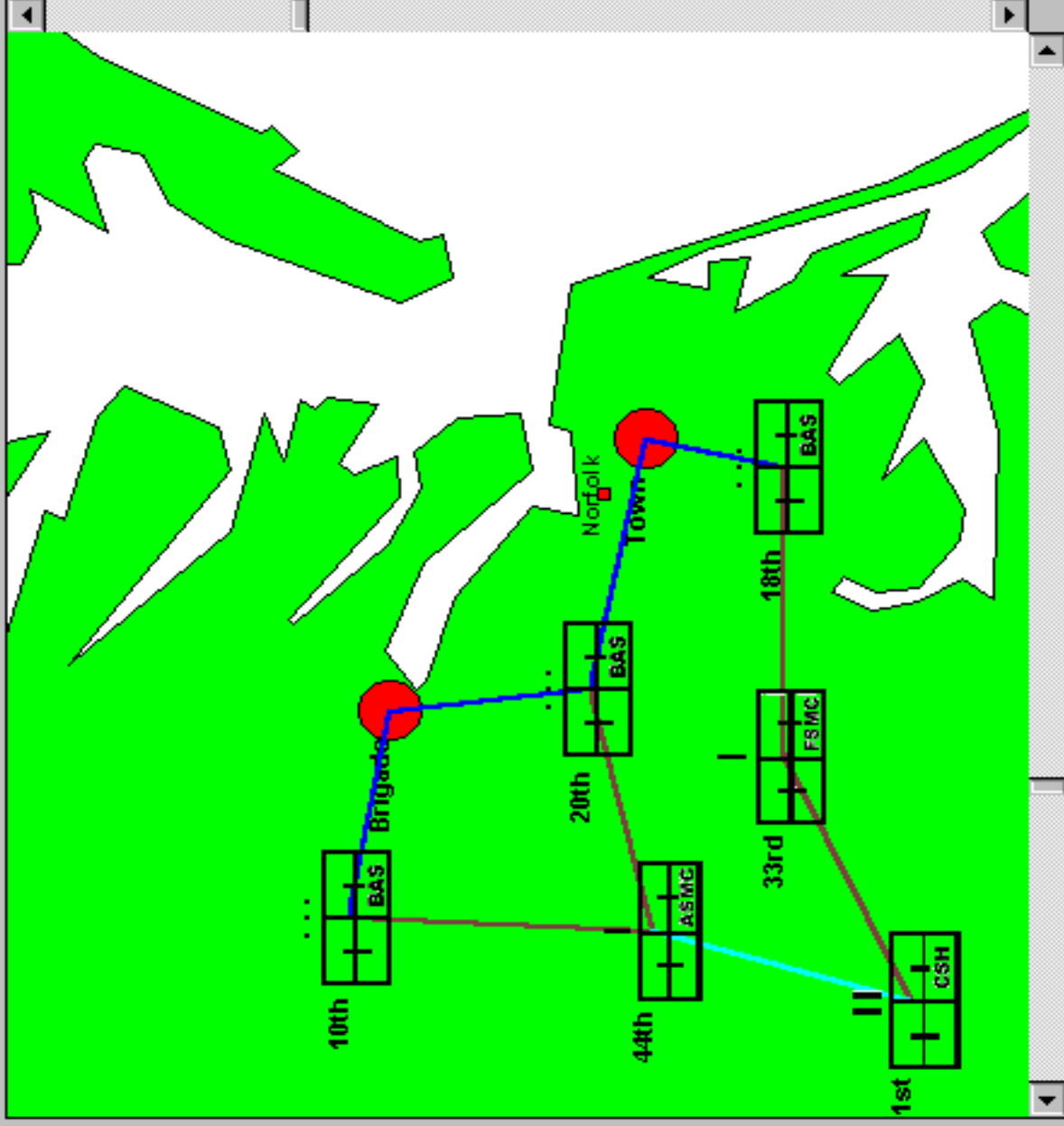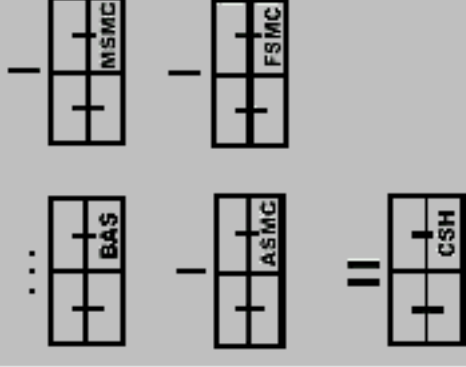
Key Design Assumptions and Constraints

- Static Population (location and size)
  - Medical Treatment Facility near insult point
- Same models for both military and civilian
  - Human Response
  - Treatment Patient Condition (PC) codes
- MOPP Gear …
- Multiple Insults
  - Single insult per individual
- Biological attacks
  - PC Code generation assumes knowledge of agent involved

Planned Capabilities

- Biological attacks
  - Tularemia, Q fever, SEB
  - Anthrax, botulism, plague, VEE
  - …
- Chemical attacks
  - Sarin (GB)
  - VX
  - Mustard (HD)
- Nuclear attacks
  - User-selected yield

Plans for Further Development

- Refinements for Army Use
  - Account for prophylaxis
  - Account for MTFs involved in attacks
  - Decontamination resources
  - Provide link to the Casualty Training System (CTS)
  - Improve plume import capability
  - Utilize TPFDD for force structure including medical component of MTOE (?)
  - Submit to Army VV&A
- Move to Joint arena
  - GCCS capability
  - MAT compatibility
  - Integration with MAT